Patent claims

1. A halogen incandescent lamp having a transparent lamp vessel (1; 1') which is sealed off at one end, and at least one incandescent filament (3; 3') arranged within the lamp vessel (1; 1'),
characterized in that a section (11; 11'a) of the lamp vessel (1; 1') is in the form of a reflector and is provided with a light-reflecting coating (6; 6').

2. The halogen incandescent lamp as claimed in claim 1, characterized in that the light-reflecting coating is a metallic coating (6; 6') on the outer surface of the lamp vessel (1; 1').

3. The halogen incandescent lamp as claimed in claim 1, characterized in that the light-reflecting coating is a dichroic coating on the outer surface of the lamp vessel.

4. The halogen incandescent lamp as claimed in claim 1, characterized in that the lamp vessel (1) is axially symmetrical with respect to a longitudinal axis (A-A) of the lamp vessel (1), and the at least one incandescent filament (3) is arranged on the longitudinal axis (A-A) of the lamp vessel (1), the section of the lamp vessel (1) which is in the form of a reflector being a ring-shaped section (11), which is connected to the sealed-off end (2) of the lamp vessel (1) and whose ring axis is arranged on the longitudinal axis (A-A).

5. The halogen incandescent lamp as claimed in claim 1 or 4, characterized in that the section (11) of the lamp vessel (1) which is in the form of a reflector is parabolic, the rotational axis of the paraboloid being arranged on the longitudinal axis (A-A), and the vertex of the paraboloid facing the sealed-off end (2) of the lamp vessel (1).

6. The halogen incandescent lamp as claimed in claim 1 or 4, characterized in that the lamp vessel (1') is, apart from its sealed-off end (2'), in the form of an ellipsoid, whose semimajor axis is arranged on the longitudinal axis (B-B) of the lamp vessel (1'), and a region of the lamp vessel (1') which essentially corresponds to a half-shell (11'a) of the ellipsoid is provided with the light-reflecting coating (6').

7. The halogen incandescent lamp as claimed in claim 6, characterized in that the half-shell (11'a) of the ellipsoid extends from the sealed-off end (2') of the lamp vessel (1') to the opposite end of the lamp vessel.

8. The halogen incandescent lamp as claimed in claim 4, characterized in that the dimension of the lamp vessel (1; 1') transverse to the longitudinal axis (A-A; B-B) has a maximum value of 30 mm.

9. The halogen incandescent lamp as claimed in claim 1, characterized in that the sealed-off end (2; 2') of the lamp vessel (1; 1') is in the form of a base.

10. The halogen incandescent lamp as claimed in claim 1, characterized in that the incandescent filament (3; 3') is completely surrounded by the section (11; 11') of the lamp vessel (1; 1') which is in the form of a reflector.

11. The halogen incandescent lamp as claimed in one or more of claims 1 to 10, characterized in that the halogen incandescent lamp is a low-volt halogen incandescent lamp, the length of the light-emitting coil of the incandescent filament (3; 3') being less than or equal to 4.4 mm, and its external diameter being less than 2.3 mm.